

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) An apparatus comprising:
a plasma produced light source;
one or more collector optics;
a contaminant trap between the light source and the one or more collector optics; and
a secondary plasma generating device generating a secondary plasma at a location between the light source and said contaminant trap, to prevent reduce an amount of matter from reaching that reaches the one or more collector optics.
2. (Original) The apparatus of claim 1, wherein the light source comprises an extreme-ultraviolet (EUV) light source.
3. (Original) The apparatus of claim 1, wherein the plasma generating device comprises an antenna.
4. (Original) The apparatus of claim 3, wherein the antenna comprises an RF coil to produce an inductively coupled plasma.

5. (Currently amended) The apparatus of claim [[1]] 4,
further comprising means for minimizing sputtering of the coil.

6. (Original) The apparatus of claim 5, wherein the means
for minimizing sputtering of the coil comprises a Faraday
shield.

7. (Original) The apparatus of claim 1, further
comprising:

an electromagnetic field generating device to attract the
ionized debris particles toward the contaminant trap.

8. (Original) The apparatus of claim 7, wherein the
contaminant trap comprises a plurality of foil elements.

9. (Currently amended) ~~The apparatus of claim 8~~ An
apparatus comprising:

a plasma produced light source;

one or more collector optics;

a contaminant trap between the light source and the one or
more collector optics; and

a plasma generating device to prevent matter from reaching
the one or more collector optics, further comprising an
electromagnetic field generating device to attract the ionized
debris particles toward the contaminant trap, wherein the

contaminant trap comprises a plurality of foil elements, further
comprising

a power source to produce a potential difference between
neighboring metal foil elements in the contaminant trap to
attract the ionized particles to the metal foils.

10. (Currently amended) The apparatus of claim ~~[[1]]~~ 4,
further comprising a power supply connected to the coil.

11. (Previously presented) The apparatus of claim 10,
wherein the power supply is adapted to supply radio frequency
(RF) power.

12. (Previously presented) The apparatus of claim 10,
wherein the power source is adapted to supply direct current
(DC) power.

13. (Original) The apparatus of claim 1, wherein the light
source comprises electrodes.

14. (Original) The apparatus of claim 13, wherein the
electrodes comprise a first material and are coated by a second
material.

15. (Original) The apparatus of claim 14, wherein the second material is more easily ionized than the first material.

16. (Original) The apparatus of claim 14, wherein the second material is more easily ablated than the first material.

17. (Original) The apparatus of claim 14, wherein the first material comprises a tungsten alloy and the second material comprises an alkali metal.

18. (Original) The apparatus of claim 17, wherein the alkali metal is cesium.

19. (Original) The apparatus of claim 17, wherein the alkali metal is lithium.

20. (Currently amended) The apparatus of claim ~~[[1]]~~ 4, further comprising a second coil between the contaminant trap and the collector optics.

21. (Previously presented) The apparatus of claim 20, wherein the second coil is adapted to ionize debris particles that pass the contaminant trap.

22. (Withdrawn) A method comprising:

ionizing debris particles generated by a plasma producing light source in a lithography system; and

diverting the ionized debris particles away from collector optics in the lithography system.

23. (Withdrawn) The method of claim 21, wherein said attracting comprises:

effecting the path of the ionized debris particles toward a contaminant trap between the light source and collector optics in the lithography system.

24. (Withdrawn) The method of claim 21, wherein said attracting comprises:

producing a potential difference between elements in the contaminant trap.

25. (Withdrawn) The method of claim 21, wherein said ionizing comprises:

generating a secondary plasma between the light source and the collector optics.

26. (Withdrawn) The method of claim 25, wherein said generating secondary plasma comprising generating a plasma by inductive coupling.

27. (Withdrawn) The method of claim 26, wherein Faraday shields are used to minimize self-biasing.

28. (Withdrawn) The method of claim 25, wherein said generating the secondary plasma comprises:

providing radio frequency (RF) power to a coil between the light source and the contaminant trap.

29. (Withdrawn) The method of claim 21, further comprising:

generating extreme ultraviolet (EUV) radiation with the light source.

30. (Currently amended) A system comprising:
a light source chamber including
a plasma produced light source,
one or more collector optics,
a contaminant trap between the light source and the one or more collector optics, and

a secondary plasma generating device, separate from said plasma produced light source, at a location between the light source and said contaminant trap to ~~effect removal of~~ impede matter from reaching the one or more collector optics by generating a secondary plasma; and

a lithography chamber connected to the light source chamber.

31. (Original) The system of claim 30, wherein the light source comprises an extreme-ultraviolet (EUV) light source.

32. (Original) The system of claim 31, wherein the plasma generating device comprises an antenna.

33-35. (Canceled).

36. (Currently amended) ~~The apparatus of claim 35~~ An apparatus comprising:

a light chamber including
a plasma produced light source in a light chamber;
one or more collector optics,
a contaminant trap between the light source and the one or more collector optics, and
a plasma generating device operative to ionize debris in the light chamber, wherein the plasma generating device comprises an antenna, wherein the antenna comprises an RF coil to produce an inductively coupled plasma.